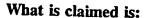
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device for separating specific target microorganisms from 1. suspension containing mixed groups of microorganisms, comprising:

a plurality of beads coated with at least one antibody material to capture the target microorganisms; and

an enclosure made of a grid material enclosing said beads, with a pore size smaller than the size of said beads and larger than the size of the microorganisms.

- The device of claim 1 wherein said beads are made of resinous 2. 10 material.
 - The device of claim 1 wherein said beads are made of non resinous 3. material.
 - The device of claim \1 further comprising means to agitate said 4. enclosure in the suspension.
- 15 A method of separating target microorganisms from a suspension 5. containing mixed groups of microorganisms, comprising:

immersing a plurality of beads coated with at least one antibody material into the suspension, said beads being held by an enclosure made of a grid makerial with a pore size smaller than the size of said beads and larger than the size of the microorganisms, thereby allowing the capture of the target microorganisms by wherein said enclosure further comprises said beads; and

washing said beads to remove organisms not bounded to said beads, after pulling said enclosure from the suspension.

- 6. The method of claim 5 wherein at least\one detergent is applied in 25 said washing.
 - 7. The method of claim 5 further complising agitation of said enclosure holding said beads in the suspension.



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implies 10 old growth

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8. The method of claim 7 wherein the time period of agitation is at least 30 minutes.

9. The method of claim 7 wherein the time period of agitation extends for several hours.

10. The method of claim 5 including the addition of at least one detergent to the suspension to decrease adsorption of non-specifically bound cells.

11. The method of claim 5 including the subsequent step of immersing the enclosure and beads in a new growth broth.

12. The method of claim 11 including the addition of an indicator material to the new growth broth.

13. The method of claim 5 including the subsequent step of separating the beads from the enclosure followed by at least one test to reveal the microorganisms of interest.

lo not in spec.

(JMD\Eden - p.7a to Pat. Applic.)

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